

Rapid

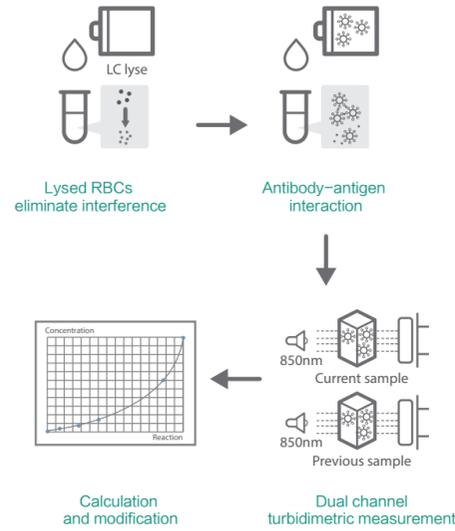
Dual CRP Analysis Channels for High Throughput

Dual CRP analysis channels working together save waiting time of consecutive tests between hematology and CRP test, enabling a CBC+DIFF+CRP throughput up to 60 samples per hour, which is the fastest in the industry for the same mode of measurement.

Precise

Latex Immunoturbidimetric Technology

Advanced and proven Latex Immunoturbidimetric technology plus two reagents can well guarantee the analyzing accuracy in fast dual-channel CBC+DIFF+CRP test.



BC-5390CRP Automated Hematology Analyzer

Technical Specifications

Principal technologies

Impedance method for RBC and PLT counting

Cyanide free reagent for hemoglobin test

Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC differential

Latex Immunoturbidimetric Method for CRP test

Parameters

26 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR, FR-CRP

6 research parameters: ALY#, ALY%, LIC#, LIC%, NRBC%, NRBC#

3 histograms for WBC, RBC and PLT

1 scattergram: Differential scattergram

Sample mode

Venous whole blood mode

Capillary whole blood mode

Prediluted mode

Sample Volume

CBC mode 20 μ L

CBC + DIFF mode 20 μ L

CBC + DIFF + CRP mode 35 μ L

CRP mode 20 μ L

Prediluted mode 20 μ L

Performance

	Carryover	Precision	Linearity
WBC	$\leq 0.5\%$	$\leq 2.0\%$ ($4-15 \times 10^9/L$)	0.00-400.00 $\times 10^9/L$
RBC	$\leq 0.5\%$	$\leq 1.5\%$ ($3.5-6.0 \times 10^{12}/L$)	0.00-8.00 $\times 10^{12}/L$
HGB	$\leq 0.6\%$	$\leq 1.5\%$ (110-180g/L)	0-250g/L
PLT	$\leq 1.0\%$	$\leq 4.0\%$ ($150-500 \times 10^9/L$)	0-5000 $\times 10^9/L$
FR-CRP	$\leq 1.0\%$	$SD \leq 0.50 \text{mg/L}$ ($\leq 10 \text{mg/L}$) $CV \leq 4\%$ ($> 10 \text{mg/L}$)	0.2-320mg/L

Throughput

CBC+DIFF: up to 60 samples per hour

CBC+DIFF + CRP: up to 60 samples per hour

CRP: up to 60 samples per hour

Data Storage Capacity

Up to 40,000 results with numeric and graphical information

Communication

LAN Port supports HL7 protocol

Support bi-directional LIS

Operating Environment

Ambient temperature: 15°C - 30°C

Relative humidity: 30% - 85%

Atmospheric pressure: 70kPa - 106kPa

Power requirement

Voltage: 100V-240V

Frequency: 50Hz/60Hz

Dimension and Weight

Width x Height x Depth: 570mm x 560mm x 700mm

Weight: 65kg

Reagents

M-53D Diluent

M-5 LEO (I) Lyse

M-5 LEO (II) Lyse

M-53LH Lyse

LC Lyse

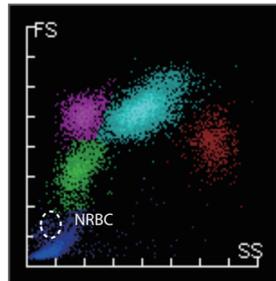
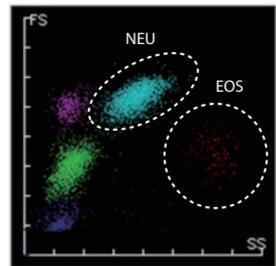
C-reactive Protein(CRP) Kit(Latex Immunoturbidimetric Method)

Probe Cleanser



BC-5390CRP Automated Hematology Analyzer

1 tube solution for CBC+DIFF and CRP



Powerful reagent

New powerful reagent improves the 5-part WBC differentiation ability (especially in samples with high number of Eosinophils) and ability to process aged samples (maintained at ambient temperatures up to 24 hours)

NRBC parameters and flag

BC-5390CRP can flag "NRBC" research parameters called NRBC# and NRBC%, which represent respectively the number and ratio of the nucleated red blood cells, facilitating doctors with important diagnostic inferences.

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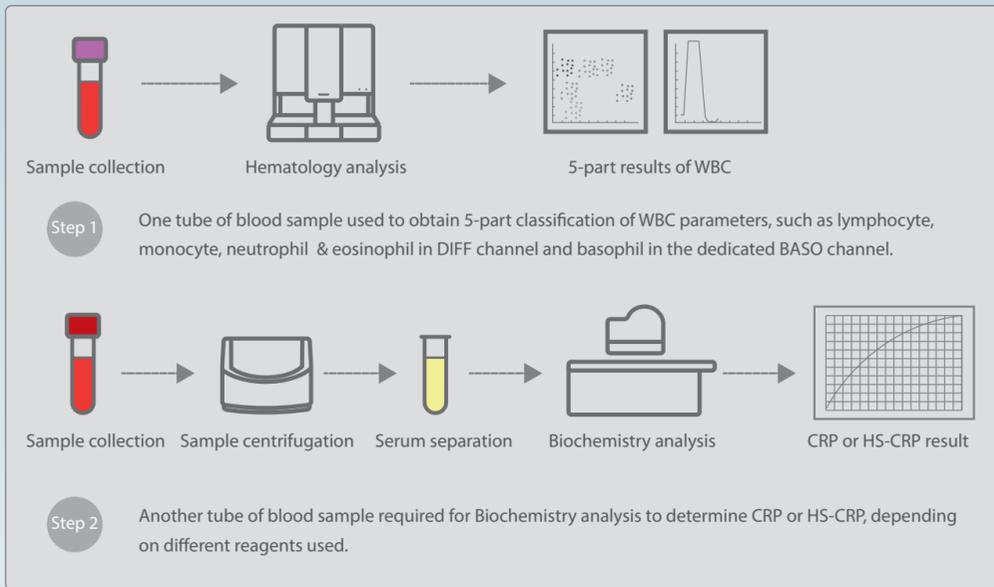
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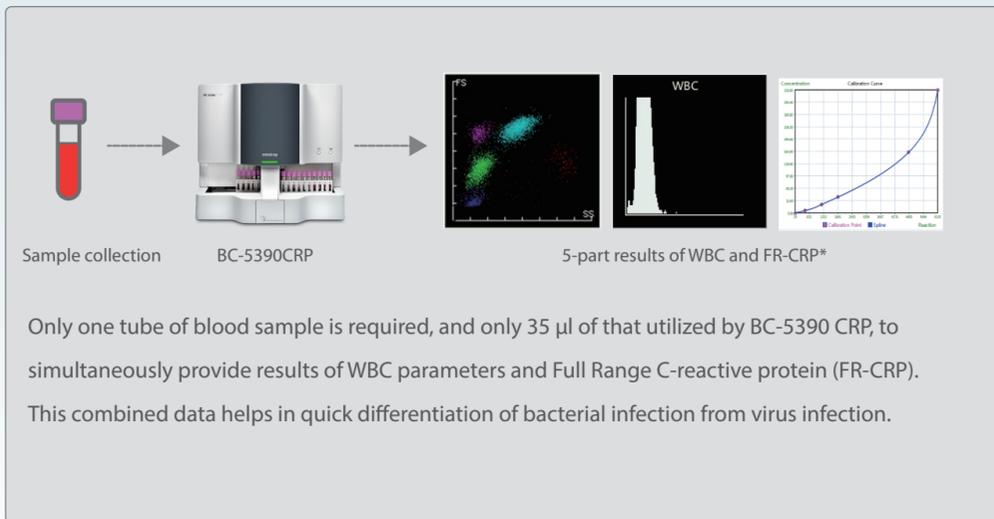
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healthcare within reach

What is 1 tube solution?

By conventional technology



By BC-5390CRP



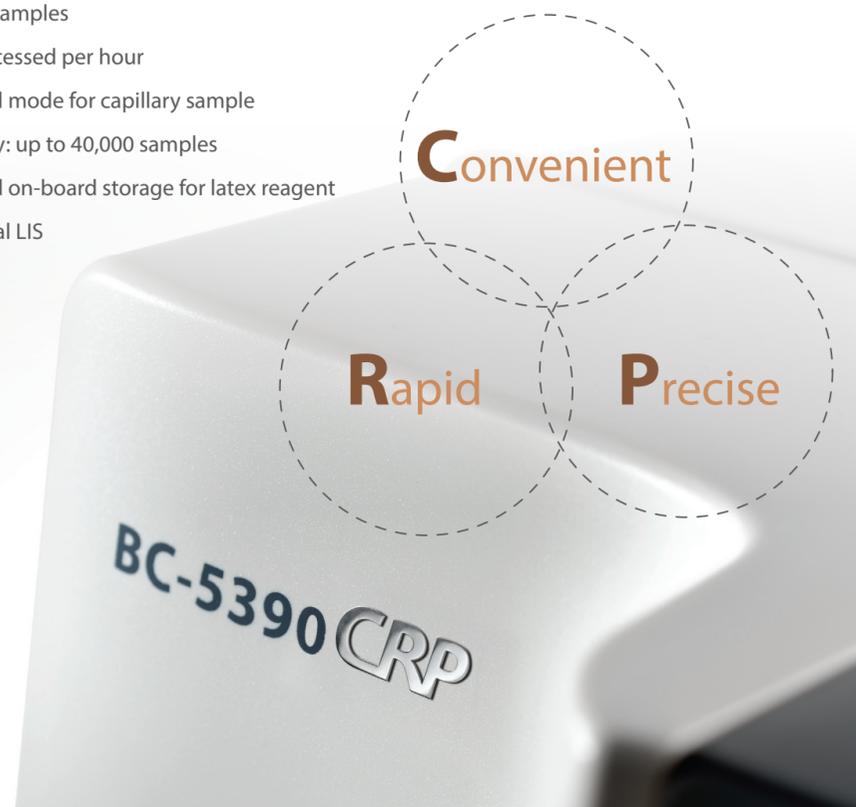
*FR-CRP: Full Range CRP

BC-5390CRP Automated Hematology Analyzer

Combining the advanced technology of hematology analysis and latex immunoturbidimetry, BC-5390CRP requires only 35µl blood from a single blood tube, to simultaneously provide results of WBC 5-part differentiation and FR-CRP at a throughput speed of 60 samples/hour.

C-reactive protein (CRP) is an important diagnostic parameter to detect inflammation, monitor progress of inflammatory process or effectiveness of therapeutic treatment. Availability of CRP and WBC parameter data simultaneously, helps in prompt differentiation of bacterial infections from viral infections.

- 5-Part WBC differentiation + CRP, 32 parameters, 1 scattergram and 3 histograms
- Supports individual CRP test mode
- Semi-conductor Laser scatter + Chemical dye method + Advanced flow cytometry + Latex Immunoturbidimetric Method
- Real time monitoring of CRP response curves to preserve the accuracy of the results
- Only 20 µl sample volume for CBC + DIFF results
- 40 tubes autoloader with random access
- Closed tube for STAT samples
- Up to 60 samples processed per hour
- Supports whole blood mode for capillary sample
- Large storage capacity: up to 40,000 samples
- Thermostat controlled on-board storage for latex reagent
- Supports bi-directional LIS



Convenient

Capillary whole blood mode

Capillary whole blood mode offers convenient analysis of pediatric and geriatric blood samples.



Thermostat storage and RF technology

Built-in thermostat (2-8 °C) storage conveniently keeps the CRP latex reagent in refrigerated state, even after the analyzer is turned off, eliminating need for external storage.



Advanced Radio Frequency (RF) technology automatically detects the latex reagent information, instead of manual scanning, which makes it more convenient.

Individual CRP mode

Individual CRP test mode helps saving of hematology reagents on samples that need only CRP analysis.



Full Range CRP test

